

indebted to the Trustees and Dr. Norman Tebble of that institution. Financial aid from the Society of Sigma Xi and the Department of Biology, Harvard University, enabled the author to pursue this study.

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## Notes on the Terebridae of the Philippine Islands (Mollusca: Gastropoda)

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THE INCREASING NUMBER of students and collectors of Mollusca and the several collecting expeditions of the past decade have resulted in the addition of new records for terebrid species in the Philippine fauna. As this collecting is extended to the northern islands of the archipelago, it is to be expected that additional species, especially those known from the Japanese and Malaysian areas, will be encountered. It should be noted that several such species of wide distribution which have been collected at such diverse localities as Hawaii, Japan, Israel, and South Africa have not yet been seen by this author in the Philippine material examined to date.

These notes are the result of the examination of more than 4000 specimens of Terebridae collected exclusively at Philippine localities. Through the courtesy of Mr. John E. duPont and the Delaware Museum of Natural History, I have had the opportunity to examine Terebridae collected by the late Colonel John Root and those later collected by Mr. duPont and Dr. R. T. Abbott. A large quantity of specimens collected at Luzon, Samar, and Sulu were generously made available for study by Dr. Alan Solem and the Chicago Natural History Museum. Dr. Arthur Clarke and the National Museum of Canada have provided specimens collected by the Norton Expe-

dition to Alabat Island. A number of Philippine students and collectors have given valuable assistance by making their personal collections available, providing quantities of specimens with exact locality data. Numerous private collections have been examined for specimens of the area.

It has been sixty years since, in 1904, J. G. Hidalgo published the "*Catálogo de los molluscos testaceos de las islas Filipinas, Joló y Marianas*" in which he listed the species cited from the area to that time. It has seemed desirable that this list be followed in the present notes; therefore all of the species he listed are repeated here with the new records incorporated in the alphabetical arrangement. Those familiar with Hidalgo's publication will notice that some liberties have been taken in making this arrangement; his appended list under "Other species cited" has also been incorporated. Specimens from Guam and the Marianas Islands have not been included here, nor have several species which have eluded identification.

The most recent publication of species from this area appears to be that of LEOPOLDO A. FAUSTINO (1928), Summary of Philippine Marine and Fresh-water Mollusks. In this extensive list an attempt is made to include the original citation and locality records for the area; however, many species are cited only from HIDALGO's

Catalogue of Shells, and no attempt is made to verify the citations listed. This summary resulted in the addition of only a single species, *Terebra tuberosa* HINDS, 1844; on the other hand, six species listed by HIDALGO were omitted, as follows: *T. argus* HINDS, 1844, *T. nebulosa* KIENER, 1839, *T. pallida* DESHAYES, 1859, *Hastula lanceata* (LINNAEUS, 1767), *H. philippiana* (DESHAYES, 1859), and *H. verreauxi* (DESHAYES, 1859). Also excluded were all of the species listed by HIDALGO in his appended "Other species cited". This summary contains an excellent bibliography for the area.

In the present notes no attempt is made to repeat the locality records or citations of either of the two mentioned authors. Only a general collecting locality for the species listed here is given; more accurate data are available for those interested. All species listed have been compared with the original descriptions and figures; with photographs of several of the holotypes or paratypes; with some species in the author's collection which came originally from the Cuming Collection; and with many homeotype specimens from the Philippines, Australia and Japan. The references and figures cited by both HIDALGO and FAUSTINO have also been compared with the specimens at hand.

Much of the synonymy for species listed remains to be investigated and I have, for this reason, included all of the specific names of the two lists mentioned above. A comparison will show that a number of these names have been placed in the synonymy. It is apparent that additional changes will be necessary in the specific nomenclature of several of the listed species. Corrections in nomenclature made here are of the less well-known species, and it is expected that others more familiar to the general collector will be individually reviewed in the future.

These notes are not intended as a systematic arrangement of the species. For the present purpose, it has seemed sufficient to list the species in alphabetical order, placing them in the broad generic groups of *Duplicaria*, *Hastula*, and *Terebra*, with appropriate sub-genera. For those who prefer the more detailed arrangements, a list of the generic names used, with author, date of publication, and type species follows the list of species.

All species cited by lot number will be found, as indicated, in the collections listed below. In order to incorporate these new records with those of HIDALGO, the following symbols and abbreviations have been used:

- \* = species listed by HIDALGO
- (x) = species not verified by HIDALGO
- CM = Chicago Natural History Museum, Chicago, Illinois.
- DM = Delaware Museum of Natural History, Greenville, Delaware.

- O = Olivera Collection, Quezon City, Philippines.
- B = Burch Collection, Houston, Texas

#### *Duplicaria*

\*(x) *D. (? Pristiterebra) badia* (DESHAYES, 1859): Proc. Zool. Soc. London, p. 300, no. 132; Fig.: Thes. Conch., 1844, T., Pl. 43, fig. 59.

*Terebra castanea* HINDS, 1844: HINDS in SOWERBY, Thes. Conch. 1: 161, pl. 43, fig. 59 (*non* KIENER, 1839).

*T. ligneola* REEVE, 1860: Conch. Icon. T., pl. 7, no. 25. This species from western Africa has not been among specimens examined.

\*(x) *D. (Duplicaria) bernardi* (DESHAYES, 1857): Journ. Conchyl., p. 84, pl. 4, fig. 10.

This species, commonly collected in Queensland and northern Australia (B no. 412), has not been included in the collections examined.

\* *D. (Duplicaria) duplicata* (LINNAEUS, 1758): Syst. Nat., Ed. 10, p. 742, no. 419; KIENER: Icon. Coq. Viv., 1839, T., pl. 9, fig. 19 and pl. 12, figs. 26 (both)

*Terebra chalybeus* (MARTINI, 1780): Conch. Cab., p. 301, pl. 155, fig. 1455.

\* *T. lamarcki* KIENER, 1839, Icon. Coq. Viv. T., p. 30, no. 25, pl. 9, fig. 19.

*T. reevei* DESHAYES, 1857: Journ. Conchyl., p. 88, pl. 4, fig. 14.

? *T. japonica* E. A. SMITH, 1873: Ann. & Mag. Nat. Hist. 11 (ser. 4): 265.

A wide range of color and color pattern is exhibited by this species, the sculpture remaining constant except for the varying width of the axial ribs. Specimens of an unusual dark-gray color with maroon flammules are collected rarely at Batangas Bay (B no. 212).

\*(x) *D. (Duplicaria) dussumieri* (KIENER, 1839): Icon. Coq. Viv., T., p. 31, no. 26, pl. 8, fig. 17.

This species of Formosa (B no. 131) and Japan (B no. 423) has not been included among the specimens examined.

\*(x) *D. (Duplicaria) evoluta* (DESHAYES, 1859): Proc. Zool. Soc. London, p. 292, no. 88; Fig.: REEVE; Conch. Icon. 1860 T., pl. 8, no. 55.

The single specimen seen in the Olivera Collection, was collected at Batangas Bay.

*D. (Duplicaria) raphanula* (LAMARCK, 1822): Anim. sans Vert. 7: 288, no. 16; Fig.: KIENER; Icon. Coq. Viv., 1839, T., pl. 10, fig. 20.

An uncommon species. Samar, Sulu, Luzon. (CM no. 127146, DM no. 3558, B no. 035).

*Hastula*

\* *H. (Hastula) aciculina* (REEVE, 1860): Conch. Icon., T., pl. 23, figs. 121 (all) (*non* LAMARCK, 1822).

REEVE has incorrectly figured three distinct species under this name, all of which had been described as new species by HINDS. Two of these, *Hastula casta* and *H. inconstans*, are indigenous to the area; the third, *H. stylata*, has not been among specimens examined, although it is found in Japan (B no. 516). E. A. SMITH's *H. confusa* (Ann. & Mag. Nat. Hist., 19 (ser. 4): 229, 1877) is founded on two of the species figured by REEVE.

*H. (Punctoterebra) anomala* (GRAY, 1834): Proc. Zool. Soc. London, p. 62; Fig.: HINDS in SOWERBY, Thes. Conch., T., 1844, pl. 44, fig. 97.

Uncommon at Alabat Island (B no. 179).

*H. (Impages) bacillus* (DESHAYES, 1859): Proc. Zool. Soc. London, p. 285, no. 49.

This small species is very close to juvenile forms of *H. caerulescens* (LAMARCK, 1822). Common in several localities. Luzon. (B. no. 442).

\* *H. (Impages) caerulescens* (LAMARCK, 1822): Anim. sans Vert. 7: 288, no. 12; Fig.: KIENER; Icon. Coq. Viv., 1839, T., pl. 6, fig. 12 a, 12 b, 12 c.

*Terebra hectica* (LINNAEUS, 1758) (in part possibly): The description is too vague and includes several species. (*non* CHEMNITZ, 1780; *non* WOODARCH, 1822, *non* KÜSTER, 1841).

? *T. edentula* (GMELIN, 1790): Syst. Nat., Ed. 13, p. 3505, no. 155.

? *T. nivea* (GMELIN, 1790): l. c., p. 3504 (*non* pp. 3471 and 3495).

? *T. bifasciata* (DILLWYN, 1817): Descr. Cat., 2: 651, no. 155.

*T. terebralis* (MENKE, 1828): Synops. Moll., p. 84.

*T. otaitensis* (LESSON, 1830): Voy. Coq., 2 (1): 407.

*T. nimbose* HINDS, 1844: Proc. Zool. Soc. London, p. 151.

*T. flammulata* MARTENS, 1880: Mauritius, p. 230, pl. 20, fig. 5.

*H. hectica alba* DAUTZENBERG, 1935: Mem. Mus. Hist. Nat. Belg., 17 (ser. 2): 42, pl. 2, fig. 4.

*H. hectica fusca* DAUTZENBERG, 1935, l. c., p. 42, pl. 2, fig. 2

Extremely variable in color arrangement. Not uncommon. Cebu, Luzon. (CM no. 127144; DM no. 3552; B no. 450).

\* *H. (Hastula) casta* (HINDS, 1844): Proc. Zool. Soc. London for 1843: 156; Fig.: HINDS in SOWERBY, Thes. Conch., 1844, T., pl. 44, fig. 84.

\* (x) *T. albula* MENKE, 1843: Moll. Nov. Holl., p. 30, no. 163; Fig.: HINDS in SOWERBY; Thes. Conch., 1844, T., pl. 45, fig. 126. MENKE's description of

this colorless variety would appear to have priority.

*T. bipartita* DESHAYES, 1859: Proc. Zool. Soc. London, p. 284, no. 47.

\* (x) *T. incolor* DESHAYES, 1859: Proc. Zool. Soc. London, p. 283, no. 44.

\* (x) *T. philippiana* DESHAYES, 1859: Proc. Zool. Soc. London, p. 289, no. 68 (*non* DALL, 1920).

\* *T. aciculina* REEVE, 1860: Conch. Icon., T., pl. 23, (in part) fig. 121 a only (*non* LAMARCK, 1822).

*T. medipacifica* PILSBRY, 1921: Marine Moll. Hawaii, p. 308, pl. 12, figs. 8, 9, 10. In this somewhat more obese variety the axial ribs extend from suture to suture on each whorl.

*T. medipacifica melior* PILSBRY, 1921: l. c., p. 308, pl. 12, fig. 11. Described from a larger specimen of the preceding.

*H. casta natalensis* E. A. SMITH, 1903: Proc. Mal. Soc., 5 (6): 360.

Variable in color, sculpture and form. Color often completely absent as in *H. albula* or distinct and coalesced as in *H. philippiana*. Sculptural and form variations appear in about equal numbers in specimens taken from the same colony by divers. A common species in all localities (CM no. 127140; DM no. 3538; B no. 259; Olivera Collection contains superior examples of the *philippiana* variety).

\* (x) *H. (Hastula) cinerea* (BORN, 1778): Mus. Vind., p. 267, pl. 10, figs. 11, 12.

*Terebra aciculina* LAMARCK, 1822: Anim. sans Vert. 7: 290, no. 22 (*non* HINDS, 1844; *non* REEVE, 1860).

Common in Florida (B no. 128), the Gulf of Mexico, northern Panama (B no. 183) to Rio de Janeiro, Brazil (B no. 535). Many Indo-Pacific species have been incorrectly placed in the synonymy.

*H. (Hastula) concinna* (DILLWYN, 1817): Descr. Cat., p. 647, no. 144; Fig., BORN; Mus. Vind., 1778, p. 264, pl. 10, fig. 10 (*non* DESHAYES, 1857).

\* *T. strigilata* (LINNAEUS, 1758): Syst. Nat., Ed. 10, p. 741, no. 418 (the description is too brief, and the species cannot be determined with any certainty).

*T. strigilata* (BORN, 1778): Mus. Vind., p. 264, pl. 10, fig. 10. This specific name is a homonym and was replaced by DILLWYN. The figure fails to show the prominent axial ribs distinctive of this species, which superficially resembles several other forms (*non* CHEMNITZ, 1780; *non* GMELIN, 1790, *non* KIENER, 1839).

*T. striatula* KIENER, 1839: Icon. Coq. Viv., T., pl. 9, (in part) fig. 18

*T. acumen* DESHAYES, 1859: Proc. Zool. Soc. London, 287, no. 58.

*T. argenvillei* DESHAYES, 1859: l. c., p. 286, no. 56.

? *T. modesta* DESHAYES, 1859: l. c., p. 288, no. 64.

- \* *T. matheroniana* DESHAYES, 1859: *l. c.*, p. 287, no. 60.
- \* *T. verreauxi* DESHAYES, 1859: *l. c.*, p. 286, no. 55.
- A widely distributed species which exhibits a remarkable range of color variations; yellow, fawn, white, light-blue, dark-gray, and in Queensland, Australia, an unusual green color without the white line on the body whorl. Individual specimens will occasionally make a transition from yellow to dark gray in mid-growth. The sculpture remains constant except for the varying width and number of axial ribs. A common species. Sulu; Luzon (CM no. 127163; DM no. 3557; B no. 458).
- \* (x) *H. (Hastula) dispar* (DESHAYES, 1859): Proc. Zool. Soc. London, p. 284, no. 46; Fig.: REEVE; Conch. Icon., 1860, T., pl. 25, no. 137.
- This species is commonly collected at Broome, Western Australia (B no. 317), but has not been among Philippine specimens examined.
- H. (Impages) exacuminata* SACCO, 1891: I Moll. d. Terr. Terz. Piem. e Liguria, pt. 10, T., p. 18.
- T. acuminata* REEVE, 1860: Conch. Icon., T., pl. 26, no. 143 (*non* BORSON, 1820).
- An uncommon species. Batangas Bay, Luzon (B no. 161).
- \* *H. (Hastula) hastata* (GMELIN, 1791): Syst. Nat., Ed. 13, p. 3502; Fig.: KIENER; Icon. Coq. Viv., 1839, T., pl. 10, fig. 23.
- This common species of Florida and the Caribbean Sea areas (DM no. 1746; B no. 312) has not been among specimens in the collections examined.
- H. (Hastula) inconstans* (HINDS, 1844): Proc. Zool. Soc. London for 1843: 156; Fig.: HINDS in SOWERBY, 1844, Thes. Conch., T., pl. 44, fig. 83.
- \* *T. aciculina* REEVE, 1860: Conch. Icon., T., pl. 23, (in part), figs. 121 b, 121 d, 121 e (*non* LAMARCK, 1822).
- H. confusa* E. A. SMITH, 1877: Ann. & Mag. Nat. Hist., p. 299; Fig.: REEVE; Conch. Icon., 1860, T., pl. 23 (in part), fig. 121 d; (*non* vars. 121 c, 121 f).
- T. inconstans confusa* PILSBRY, 1921: Marine Moll. Hawaii, p. 301.
- Uncommon in Batangas Bay, Luzon (B no. 441).
- \* *H. (Hastula) lanceata* (LINNAEUS, 1767): Syst. Nat., Ed. 12, p. 1206, no. 486; Fig.: KIENER; Icon. Coq. Viv., 1839, T., pl. 10, fig. 22 (*non* figs. 22 a, 22 b).
- A common species; Luzon; Sulu (CM no. 127145; DM no. 3554; B no. 205).
- H. (Punctoterebra) lauta* (PEASE, 1869): Am. Journ. Conch. 5: 66; Fig.: WEAVER; Hawaiian Mar. Moll., 1 (8): 30, no. 2.
- Alabat Island; Luzon (DM no. 3574; B no. 049).
- H. (Punctoterebra) nitida* (HINDS, 1844): Proc. Zool. Soc. for 1843: 152; Fig.: HINDS in SOWERBY; Thes. Conch., T., 1844, pl. 45, fig. 103.
- T. plicatella* DESHAYES, 1857: Journ. Conchyl., p. 96, no. 32, pl. 3, fig. 5.
- T. cernica* SOWERBY, 1893: Proc. Mal. Soc., 1: 43, pl. 4, fig. 1.
- T. nitida* var. *sicyodes* MELVILL & SYKES, 1898: Proc. Mal. Soc. 3 (1): 43, pl. 3, fig. 8.
- T. clappi* PILSBRY, 1921: Mar. Moll. Hawaii; Proc. Acad. Nat. Sci. Phila. 69: 306; Fig.: WEAVER; Hawaiian Mar. Moll. 1 (6): 22, 1960 (juvenile and sub-adult forms).
- Uncommon in Batangas Bay, Luzon (Olivera; B no. 555).
- H. (Hastula) penicillata* (HINDS, 1844): Proc. Zool. Soc. London for 1843: 157; Fig.: HINDS in SOWERBY; Thes. Conch., 1844, T., pl. 44, fig. 91.
- \* (x) *T. venosa* HINDS, 1844: Proc. Zool. Soc. London for 1843: 157; Fig.: HINDS in SOWERBY; Thes. Conch., 1844, T., pl. 44, fig. 90.
- T. lanceata* KIENER, 1839: Icon. Coq. Viv., T., pl. 10, figs. 22 a, 22 b (*non* fig. 22).
- T. crossi* DESHAYES, 1859: Proc. Zool. Soc. London, p. 289, no. 67.
- A species of wide distribution, described by Hinds from the Seychelles Islands and recorded at Mauritius by Viader. It also occurs in Japan (B no. 505), New Guinea (B no. 297) and at Easter Island (B no. 169), all Pacific localities. I have not yet seen it in Philippine material.
- \* *H. (Punctoterebra) plumbea* (QUOY & GAIMARD, 1832): Voy. Astrolabe, Moll., p. 470, pl. 36, figs. 29, 30.
- T. bourguignati* DESHAYES, 1859: Proc. Zool. Soc. London, p. 288, no. 66.
- T. hoffmayeri* ABBOTT, 1952: Nautilus 65 (3): 78, pl. 5, figs. 5 to 9.
- A variable species in that occasional specimens do not have the punctate sulcus; some are quite without spiral sculpturing, while others from the same colony are microscopically striate. Mindanao; Luzon (DM no. 3572; B no. 376).
- H. (Hastula) solida* (DESHAYES, 1857): Journ. Conchyl., p. 78, pl. 3, fig. 11.
- T. clarkei* M. SMITH, 1912: Nautilus 26 (6): 75, pl. 4, fig. 18.
- Common in Cebu; Luzon (CM no. 127153; DM no. 3537; B no. 201).
- \* (x) *H. (Hastula) stylata* (HINDS, 1844): Proc. Zool. Soc. London for 1843: 152; Fig.: HINDS in SOWERBY; Thes. Conch., 1844, T., pl. 44, fig. 79.
- H. confusa* E. A. SMITH, 1877: Ann. & Mag. Nat. Hist., p. 299; Fig.: REEVE; Conch. Icon., 1860, T., pl. 23, (in part), figs. 121 c, 121 f, only).
- "Philippines" and "Japan" given as localities by HINDS.

The species has not been among specimens examined, although it is collected, rarely, at Ogasawara Island, Japan (B no. 516).

### *Terebra*

*Terebra (Cinguloterebra) adamsi* E. A. SMITH, 1873: Ann. & Mag. Nat. Hist., 6: 264. Unfigured.

Some resemblance in superficial appearance to *T. serotina* ADAMS & REEVE. Rare in Batangas Bay, Luzon. (Olivera; B no. 085).

\* *T. (Decorihastula) affinis* GRAY, 1834: Proc. Zool. Soc. London, p. 60; Fig.: HINDS in SOWERBY; Thes. Conch., 1844, T., pl. 44, fig. 78 (non TURTON, 1932).

*T. striata* QUOY & GAIMARD, 1832: Voy. Astrol., p. 468, pl. 36, figs 23, 24 (non BASTEROT, 1825; non GRAY, 1834).

*T. pertusa* KIENER, 1839: Icon. Coq. Viv., T., pl. 11, fig. 24 b only. (non BORN, 1780).

Common in many localities; Cebu; Luzon; Alabat Island (CM no. 127138; DM no. 3570; B no. 370).

\* (x) *T. (Dimidacus) albomarginata* DESHAYES, 1859: Proc. Zool. Soc. London, p. 314, no. 212; Fig.: REEVE; Conch. Icon., 1860, T., pl. 15, fig. 65.

Apparently a rare species. Luzon. (DM no. 3539, in part).

*T. (Dimidacus) amanda* HINDS, 1844: Proc. Zool. Soc. London for 1843: 154; Fig.: HINDS in SOWERBY; Thes. Conch. 1844, T., p. 166, no. 46, pl. 45, fig. 100.

A rare species. Batangas Bay, Luzon (Olivera Collection).

*T. (Strioterebrum) ambrosia* MELVILL, 1912: Proc. Mal. Soc. 10: 250, pl. 11, fig. 10.

A rare species. Batangas Bay, Luzon (B no. 249).

*T. (Perirhoe) anilis* (RÖDING, 1798): Mus. Bolt., p. 95, no. 46; Fig.: CHEMNITZ; Conch. Cab., (4), pl. 155, no. 1456.

*T. strigilata* CHEMNITZ, 1780: Conch. Cab., above fig. (non LINNAEUS, 1758).

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*T. cancellata* RÖDING, 1798): Mus. Bolt., p. 95, no. 47; Fig.: CHEMNITZ; Conch. Cab., above fig. (non QUOY & GAIMARD, 1832; non GRAY, 1834; non COSSMAN, 1900).

*T. myuros* LAMARCK, 1822: Anim. sans Vert., 7: 289; no. 18; Fig.: (in part) Conch. Cab., above fig. (non KIENER, 1839; non REEVE, 1860).

\* *T. straminea* GRAY, 1834: Proc. Zool. Soc. London, p. 62; Fig.: HINDS in SOWERBY; Thes. Conch., 1844, T., pl. 42, figs. 22, 23.

*T. acuta* DESHAYES, 1857: Journ. Conchyl. 6: 100, pl. 4, figs. 4, 5.

*T. circinata* DESHAYES, 1857: *ibid.*, p. 99, pl. 4, figs. 6, 7.

Common in many localities. Luzon (CM no. 127130; DM no. 3542; B no. 220).

*T. (Perirhoe) archimedes* DESHAYES, 1859: Proc. Zool. Soc. London, p. 314; Fig.: SCHEPMAN; Siboga Exped., 1913, pt. 5, Toxoglossa, pl. 25, fig. 12. Batangas Bay, Luzon (CM no. 127136; B no. 458).

*T. (Subula) areolata* (LINK, 1806): Besch. Nat. Samm. Univ. Rostock, p. 128; Fig.: CHEMNITZ; Conch. Cab., 1780, (4), T., pl. 153, fig. 1441 and pl. 154, fig. 1443 (non ADAMS & REEVE, 1850).

*T. subulata* (MARTINI-CHEMNITZ, 1780): Conch. Cab., pl. 153, fig. 1441 (non LINNAEUS, 1767).

\* *T. muscaria* LAMARCK, 1822: Anim. sans Vert. 7: 285, no. 5; Fig.: CHEMNITZ; Conch. Cab., 1780, (4), T., pl. 153, fig. 1441; pl. 154, fig. 1443 (non KIENER, 1839, pl. 3, fig. 4 b only; non KÜSTER, 1841; non DALL, 1915).

Common throughout the area. Cebu; Luzon (CM no. 127160; DM no. 5228; B no. 424).

\* *T. (Subula) argus* HINDS, 1844: Proc. Zool. Soc. London for 1843: 160; Fig.: HINDS in SOWERBY; Thes. Conch., 1844, T., pl. 23, fig. 64.

? *T. candida* (BORN, 1780): Mus. Vind., p. 263, pl. 10, fig. 8.

*T. nebulosa* KIENER, 1839: Icon. Coq. Viv., T., p. 23, no. 18, pl. 10, fig. 21 (non SOWERBY, 1825; non LOROIS, 1858).

A common species. Luzon; Sulu (CM no. 127164; DM no. 3571; B no. 189).

\* *T. (Perirhoe) babylonia* LAMARCK, 1822: Anim. sans Vert., 7: 287, no. 9; Fig.: KIENER, Icon. Coq. Viv., 1839, T., pl. 14, (in part), fig. 35 only.

*T. striata* GRAY, 1834: Proc. Zool. Soc. London, p. 60 (non BASTEROT, 1825; non QUOY & GAIMARD, 1832).

A common species. Batangas Bay, Luzon (CM no. 127158; DM no. 773; B no. 192).

\* (x) *T. (? Hastula) caliginosa* DESHAYES, 1859: Proc. Zool. Soc. London, p. 287, no. 62; Fig.: REEVE; Conch. Icon., 1860, T., pl. 20, no. 100.

Has not been among specimens examined.

\* *T. (Strioterebrum) cancellata* QUOY & GAIMARD, 1832: Voy. Astrol., Moll., 2: 471, pl. 36, figs. 27, 28 (non RÖDING, 1798; non GRAY, 1834).

In the Manual of Conchology, Vol. 7, 1885, Tryon has placed some eleven specific names in the synonymy of this species; almost all of them are in error. Common in several localities. Luzon (DM no. 3576; B no. 444).

\* *T. (Abreticella) cerithina* LAMARCK, 1822: Anim. sans Vert. 7: 288, no. 15; Fig.: KIENER; Icon. Coq. Viv., 1839, T., pl. 11, fig. 25.

*T. pulchra* HINDS, 1844: Proc. Zool. Soc. London for 1843: 151; Fig.: HINDS in SOWERBY; Thes. Conch.,

- 1844, T., p. 178. pl. 45, fig. 129.  
Common at Cebu; Luzon; Sulu (CM no. 127159; DM no. 3541; B no. 182).
- \* *T. (Oxymyris) chlorata* LAMARCK, 1822: Anim. sans Vert., 7: 288, no. 14; Fig.: KIENER; Icon. Coq. Viv., 1839, T., pl. 4, figs. 8, 8 a (*non* MARTENS, 1902).  
*T. knorri* GRAY, 1834: Proc. Zool. Soc. London, p. 59.  
Common at Cebu; Luzon; Sulu (CM no. 127162; DM no. 4397; B no. 106).
- \* (x) *T. (Dimidacus) cingulifera* LAMARCK, 1822: Anim. sans Vert., 7: 289, no. 17; Fig.: KIENER; Icon. Coq. Viv., 1839, T., pl. 13, fig. 30.  
*T. punctulata* SOWERBY, 1825: Tank. Cat. App., p. 24.  
*T. punctatostriata* GRAY, 1834: Proc. Zool. Soc. London, p. 61.  
*T. pallida* DESHAYES, 1857: Journ. Conchyl., p. 87, no. 22, pl. 4, fig. 3.  
*T. chinensis* DESHAYES, 1859: Proc. Zool. Soc. London, p. 309, no. 189.  
*T. columnaris* DESHAYES, 1859: *ibid.*, p. 310, no. 195.  
*T. crenifera* DESHAYES, 1859: *ibid.*, p. 298, no. 115.  
Common at Luzon; Samar (CM no. 127156; DM no. 4480; B no. 211).  
*T. (Decoriastula) columellaris* HINDS, 1844: Proc. Zool. Soc. London for 1843: 151; Fig.: HINDS in SOWERBY; Thes. Conch., 1844, T., pl. 44, fig. 77.  
*T. areolata* ADAMS & REEVE, 1850: Voy. Samarang, p. 30, no. 4, pl. 10, fig. 23 (*non* LINK, 1806).  
? *T. propinqua* PEASE, 1869: Amcr. Journ. Conch., 5: 66.  
Common. Batangas Bay, Luzon (CM no. 127150; DM no. 3540 in part; B no. 217).
- \* (x) *T. (Dimidacus) consobrina* DESHAYES, 1857: Journ. Conchyl., p. 72, pl. 3, fig. 3.  
This species of the Red Sea area (B no. 431) is easily confused with some sculptural variations of *T. subulata* (LINNAEUS). It has not been included among specimens examined.  
*T. (Subula) consors* HINDS, 1844: Proc. Zool. Soc. London for 1843: 150; Fig.: HINDS in SOWERBY; Thes. Conch., 1844, T., pl. 42, fig. 26.  
*T. virginea* DESHAYES, 1857: Journ. Conchyl., p. 83, no. 18, pl. 4, fig. 12.  
*T. glabra* DESHAYES, 1857: *ibid.*, p. 101, no. 37, pl. 5, fig. 13.  
Apparently an uncommon-to-rare species. Closely resembling *T. dimidiata* (LINNAEUS), it can be recognized by the less-subulate form, much weaker color pattern, and more prominent subsutural collar (Olivera; B no. 500).
- \* (x) *T. (Decoriastula) conspersa* HINDS, 1844: Proc. Zool. Soc. London for 1843: 153; Fig.: HINDS in SOWERBY; Thes. Conch., 1844, T., pl. 44, fig. 74.  
Rare among specimens examined, a single specimen collected at Luzon, representing the only example seen from this area. It is a not uncommon species in Fiji Islands localities (B no. 227). Batangas Bay (Olivera).
- \* *T. (Oxymyris) crenulata* (LINNAEUS, 1758): Syst. Nat., Ed. 10, p. 741, no. 416; Fig.: KIENER; Icon. Coq. Viv., 1839, T., pl. 5, figs. 9, 9 a.  
*T. dentata* (PETIVER, 1767): Anim. Amboin.; pl. 8, fig. 13.  
*T. varicosa* (GMELIN, 1791): Syst. Nat., Ed. 13, p. 3505, no. 165 (*non* HINDS, 1844).  
*T. coronatus* (HUMPHREY, 1797): Mus. Calonn., p. 31.  
*T. maculata* PERRY, 1811: Conch. 5: pl. 16, fig. 2 (*non* LINNAEUS, 1758).  
\* (x) *T. fimbriata* DESHAYES, 1857: Journ. Conchyl., p. 71, pl. 5, fig. 1.  
\* (x) *T. interlineata* DESHAYES, 1859: Proc. Zool. Soc. London, p. 277, no. 8.  
*T. crenulata* var. *booleyi* MELVILL & SYKES, 1898: Proc. Mal. Soc. Lond., 3: 44, pl. 3, fig. 5  
Common in almost all localities. Luzon; Samar; Sulu (CM no. 127142; DM no. 4296; B no. 145).
- \* (x) *T. (Strioterebrum) cumingi* DESHAYES, 1857: Journ. Conchyl., p. 66, no. 2, pl. 3, fig. 1.  
Uncommon in Batangas Bay, Luzon, where two color forms are found; both noted by DESHAYES (Olivera; B no. 036).
- \* *T. (Subula) dimidiata* (LINNAEUS, 1758): Syst. Nat., Ed. 10, p. 420, no. 420; Fig.: KIENER; Icon. Coq. Viv., 1839, T., pl. 2, figs. 2, 2 a.  
*T. pantherina* (HUMPHREY, 1797): Mus. Calonn., p. 31.  
*T. carnea* PERRY, 1811: Conch. 5: pl. 16, fig. 1.  
\* (x) *T. splendens* DESHAYES, 1857: Journ. Conchyl., p. 73, pl. 5, fig. 11.  
*T. chlorata* MARTENS, 1902: Rumphius Ged., p. 120 (*non* LAMARCK, 1822).  
*T. dimidiata* var. *pallida* DAUTZENBERG, 1935: Mem. Mus. Hist. Nat. Belg., Scr. 2, 17: 23 (*non* DESHAYES, 1857).  
*T. dimidiata* var. *circumvoluta* DAUTZENBERG, 1935: *ibid.*, p. 22, pl. 1, fig. 4.  
Common in many localities. Luzon; Samar; Sulu (CM no. 127161; DM no. 3099; B no. 176).
- T. (Oxymyris) felina* (DILLWYN, 1817): Cat. Shells, p. 644, no. 135; Fig.: KIENER; Icon. Coq. Viv., 1839, T., pl. 3, fig. 4 b only (*non* fig. 4).  
*T. tigrina* (GMELIN, 1791): Syst. Nat., Ed. 13, p. 3502 (*non* p. 3475); (*non* CHENU, 1859).  
*T. tigrina* DESHAYES, 1844: Anim. sans Vert., 2nd. Ed., p. 252, no. 26.  
*T. suffusa* PEASE, 1869: Am. Journ. Conch. 5: 65.  
Not uncommon. Cebu; Luzon; Samar (CM no. 127149; DM no. 3550; B no. 120).

- \* (x) *T. (Strioterebrum) fenestrata* HINDS, 1844: Proc. Zool. Soc. London for 1843: 153; Fig.: HINDS in SOWERBY; Thes. Conch., 1844, T., pl. 44, fig. 86.
- \* (x) *T. caelata* ADAMS & REEVE, 1850: Voy. Samarang, Moll., p. 30, pl. 10, fig. 22.  
Very uncommon. Maqueda Bay, Samar; Batangas Bay, Luzon (Olivera; B no. 037).
- T. (Decorihastula) fijiensis* (E. A. SMITH, 1873): Ann. & Mag. Nat. Hist. 11 (ser. 4): 266; unfigured.  
Closely resembles *Terebra undulata* GRAY, *T. columellaris* HINDS and *T. paucistriata* E. A. SMITH in superficial appearance. The slender form, style of coloration and more numerous spiral striae serve to assist in identification. Uncommon in Batangas Bay, Luzon (B no. 221).
- \* (x) *T. (Terebra) flammea* LAMARCK, 1822: Anim. sans Vert., 7: 284, no. 2; Fig.: KIENER; Icon. Coq. Viv., 1839, T., pl. 5, fig. 10.  
This name is a synonym for *Terebra taurina* SOLANDER, 1786; LIGHTFOOT has recently been recognized as the author of the Portland Catalogue in which this name is first applied to the species (Bibliog. Nat. Hist., 4 (1): 30 to 34, 1962). The species ranges through the Gulf of Mexico and to northern Brazil (B no. 159) but is not known from the Philippine area.
- T. (Strioterebrum) flavescens* DESHAYES, 1859: Proc. Zool. Soc. London, p. 299, no. 122; Fig.: REEVE, Conch. Icon., 160, T., pl. 14, fig. 59.  
Very uncommon. Subic Bay (Ames Collection, San Diego, California; B no. 214).
- \* (x) *T. (Clathroterebra) fortunei* DESHAYES, 1857: Journ. Conchyl., p. 79, pl. 4, fig. 1.  
Not uncommon in Japan (B no. 320); the species has not been among specimens seen from Philippine localities.
- \* *T. (Perirhoe) funiculata* HINDS, 1844: Proc. Zool. Soc. for 1843: 153; Fig.: HINDS in SOWERBY; Thes. Conch., 1844, T., pl. 43, fig. 63.  
A common species. Luzon; Samar; Alabat Island (CM no. 127129; DM no. 3562; B no. 001).
- T. (Terebra) guttata* (RÖDING, 1798): Mus. Bolt., p. 14, no. 1214; Fig.: CHEMNITZ; Conch. Cab., 4, 1780, pl. 153, fig. 1442.
- T. varia* (MEUSCHEN, 1787): Mus. Gevers., p. 294 (non MARTYN, 1784).
- T. maculata* var. c. (GMELIN, 1790): Syst. Nat., Ed. 13, p. 3499, no. 130 (non LINNAEUS, 1758).
- \* *T. oculata* (DILLWYN, 1817): Descr. Cat., 2: 642, no. 133. LAMARCK, 1822, repeated this name and cited same figures.
- T. nebulosa* LOROIS, 1858: Journ. Conchyl. 7: 90, pl. 1, fig. 4 (non SOWERBY, 1825, non KIENER, 1839).
- T. loroisi* DESHAYES, 1859: Proc. Zool. Soc. London, p. 313, no. 211.
- T. ornata* (MARTYN, 1784): Univ. Conch., pl. 33, fig. 1 (invalid) (non GRAY, 1834).  
Not uncommon. Batangas Bay, Luzon (DM no. 3565, juvenile specimen; B no. 097).
- T. (Perirhoe) laevigata* GRAY, 1834: Proc. Zool. Soc. London, p. 61; Fig.: HINDS in SOWERBY; Thes. Conch. 1844, T., pl. 44, fig. 93.  
Uncommon. Luzon; Samar (CM no. 127137; DM no. 3544; B no. 233).
- T. (Strioterebrum) lima* DESHAYES, 1857: Journ. Conchyl., p. 69, pl. 4, fig. 2.  
Rare in Batangas Bay, Luzon (CM no. 127135; B no. 457).
- \* *T. (Decorihastula) livida* REEVE, 1860: Conch. Icon., T., no. 116, pl. 22.  
Rare at Bataan and Batangas Bay, Luzon (CM no. 127131; DM no. 3573; Olivera).
- \* (x) *T. (Decorihastula) longiscata* DESHAYES, 1859: Proc. Zool. Soc. London, p. 294, no. 94; Fig.: REEVE; Conch. Icon., 1860, T., no. 103, pl. 21.
- T. swainsoni* DESHAYES, 1859: Proc. Zool. Soc. London, p. 299, no. 126; Fig.: REEVE; Conch. Icon., 1860, T., no. 118, pl. 22.  
Very uncommon. Batangas Bay, Luzon (CM no. 127133; DM no. 4572; B no. 178).
- \* *T. (Oxymyris) maculata* (LINNAEUS, 1758): Syst. Nat., Ed. 10, p. 741, no. 415; Fig.: KIENER; Icon. Coq. Viv., 1839, T., pl. 1, fig. 1).  
Common. Luzon; Mindoro; Sulu (CM no. 127143; DM no. 4395; B no. 454).
- \* (x) *T. (? Strioterebrum) mamillata* WATSON, 1886: Voy. Challenger, 15: 381, no. 15, pl. 16, fig. 1.  
I have not seen this species among the specimens examined.
- \* *T. (Cinguloterebra) monilis* QUOY & GAIMARD, 1832: Voy. Astrol., Moll., 2: 467, pl. 36, figs. 21, 22 (non LINNAEUS, 1771; non MENKE, 1830).  
Not uncommon. Cebu; Luzon; Alabat Island (CM no. 127132; DM no. 3568; B no. 011).
- \* (x) *T. (Decorihastula) nebulosa* SOWERBY, 1825: Tank. Cat. Append., p. 25 (non KIENER, 1839; non LOROIS, 1858).  
Common in most localities. Luzon; Sulu (CM no. 127148; DM no. 3561; B no. 215).
- T. (Decorihastula) paucistriata* (E. A. SMITH, 1873): Ann. & Mag. Nat. Hist. 11: 269. Unfigured.  
Superficially resembles sub-adult specimens of *T. undulata* GRAY. It can be distinguished by the smaller size, more slender form, spiral sculpture, and style of coloration. Rare in Batangas Bay, Luzon (B no. 588).
- T. (Decorihastula) pertusa* (BORN, 1780): Mus. Vind., p. 267, pl. 10, fig. 13 (non BASTEROT, 1825; non KIENER, 1839; non SOWERBY, 1897).

- T. undata* DEFRANCE, 1829: Dict. Sci. Nat.
- T. bermonti* LOROIS, 1857: Journ. Conchyl., 2nd. ser., p. 389, pl. 12, fig. 2. The figure does not fit the description.
- The single specimen seen was collected at Luzon (DM no. 3101).
- \* (x) *T. (Decorihastula) picta* HINDS, 1844: Proc. Zool. Soc. London for 1843: p. 156; Fig.: HINDS in SOWERBY; Thes. Conch., 1844, T., pl. 45, fig. 105. Very uncommon. Luzon; Alabat Island (Olivera; B no. 007).
- \* (x) *T. (Strioterebrum) polygyrata* DESHAYES, 1859: Proc. Zool. Soc. London, p. 301, no. 138; Fig.: REEVE; Conch. Icon., 1860, T., pl. 26, no. 146.
- \* *T. polyanata* PAETEL, 1888: Cat. Conch.-Samml., p. 253.
- Uncommon. Luzon (DM no. 3236; B no. 513).
- \* (x) *T. (Myurella) pretiosa* REEVE, 1842: Proc. Zool. Soc. London, p. 200; Fig.: REEVE; Conch. Icon., 1860, T., no. 30, pl. 8.
- This species of Japan (B no. 191) has not been among Philippine specimens examined.
- \* (x) *T. (? Strioterebrum) pulchella* DESHAYES, 1857: Journ. Conchyl., p. 94, pl. 5, fig. 4 (*non* RÖDING, 1798; *non* ADAMS & ANGAS, 1863).
- Not among the specimens seen.
- \* (x) *T. (Strioterebrum) roseata* ADAMS & REEVE, 1850: Voy. Samarang, Moll., p. 30, pl. 10, fig. 24.
- Rare. Bataan, Luzon (CM no. 127134).
- T. (Myurella) scabrella* LAMARCK, 1822: Anim. sans Vert., 10: 247, no. 19; Fig.: KIENER; Icon. Coq. Viv., 1839, T., pl. 14, fig. 34 a only.
- T. myuros* KIENER, 1839: Icon. Coq. Viv., T., pl. 14, fig. 34 a; *non* fig. 34.
- T. myuros* REEVE, 1860: Conch. Icon., T., no. 31, pl. 8 (*non* LAMARCK, 1822).
- A single specimen collected at Luzon (DM no. 3560).
- \* (x) *T. (Cinguloterebra) serotina* ADAMS & REEVE, 1850: Voy. Samarang, Moll., p. 30, pl. 10, fig. 20.
- This species of Japan (B no. 329) has not been among specimens examined.
- \* (x) *T. (Oxymeris) strigata* SOWERBY, 1825: Tank. Cat. App., p. 25 (*non* GMELIN, 1790).
- Ranging the eastern area from Mexico (B no. 276) to Peru, this species has not been among specimens examined.
- \* *T. (Terebra) subulata* (LINNAEUS, 1767): Syst. Nat., Ed. 12, p. 1205, no. 480; Fig.: KIENER, Icon. Coq. Viv., 1839, T., pl. 4, fig. 6.
- T. cornu* (BONANNI, 1773): Mus. Richter., p. 98, pl. 3, fig. 118.
- T. varia* (MARTYN, 1784): Univ. Conch., CHENU Ed., 1845, pl. 33, fig. 2 a (*non* MEUSCHEN, 1787).
- T. leopardalis* (HUMPHREY, 1797): Mus. Calonn., p. 31.
- Terebrum tigreum* MONTFORT, 1810: Conch. Syst., 2: 430, fig. 2.
- T. fusca* PERRY, 1811: Conch., T. 16, fig. 3 (*non* MARTYN, 1784).
- T. tigrina* CHENU, 1859: Man. Conch. 1: 219, fig. 1207. Common at Cebu; Luzon; Samar (CM no. 127141; DM no. 4470; B no. 175).
- \* (x) *T. (Dimidacus) succinea* HINDS, 1844: Proc. Zool. Soc. London for 1843: 149; Fig.: HINDS in SOWERBY; Thes. Conch., 1844, T., pl. 42, fig. 40.
- This species, also cited from Japan (OYAMA, Venus, 21 (4): 454, 1961), has not been among specimens examined.
- \* *T. (Strioterebrum) textilis* HINDS, 1844: Proc. Zool. Soc. London for 1843: 156; Fig.: HINDS in SOWERBY; Thes. Conch., 1844, T., pl. 44, fig. 73.
- While the species is wide-ranging and not uncommon in the Indo-Pacific, it has not been among the Philippine specimens seen.
- \* *T. (Triplostephanus) triseriata* GRAY, 1834: Proc. Zool. Soc. London, p. 61; Fig.: HINDS in SOWERBY; Thes. Conch., 1844, T., pl. 45, fig. 119.
- T. praelonga* DESHAYES, 1859: Proc. Zool. Soc. London, p. 315, no. 221; Fig.: REEVE; Conch. Icon., 1860, T., pl. 8, fig. 28.
- Very uncommon. Batangas Bay, Luzon (DM no. 3551; B no. 032).
- T. (? Strioterebrum) tuberosa* HINDS, 1844: Proc. Zool. Soc. London for 1843: 291; Fig.: HINDS in SOWERBY; Thes. Conch., 1844, T., pl. 45, fig. 99.
- This species has not been among the specimens examined.
- \* (x) *T. (Strioterebrum) undatella* DESHAYES, 1859: Proc. Zool. Soc. London, p. 300, no. 129; Fig.: HINDS in SOWERBY; Thes. Conch., 1844, T., pl. 44, fig. 80.
- This is *T. cancellata* QUOY & GAIMARD, 1832 (*non* RÖDING, 1798).
- \* *T. (Decorihastula) undulata* GRAY, 1834: Proc. Zool. Soc. London, p. 61; Fig.: HINDS in SOWERBY; Thes. Conch., 1844, T., pl. 43, fig. 55 (*non* GRATELOUP, 1841).
- T. pertusa* KIENER, 1839: Icon. Coq. Viv., T., pl. 11, fig. 24 c only.
- T. approximata* DESHAYES, 1859: Proc. Zool. Soc. London, p. 299, no. 125.
- T. undulata* var. *laevior* SCHEPMAN, 1913: Siboga Exp., Toxoglossa, pt. 5, p. 372, no. 21, pl. 25, fig. 9.
- Common. Luzon; Samar (CM 127155; DM 4295; B no. 159).
- \* (x) *T. (Strioterebrum) variegata* GRAY, 1834: Proc. Zool. Soc. London, p. 61; Fig.: KIENER; Icon. Coq. Viv., 1839, T., pl. 2, fig. 3.



A species of western Mexico (B no. 171); not among Philippine specimens seen.

\*<sub>(x)</sub> *T. (Clathrotrebra) violascens* HINDS, 1844: Proc. Zool. Soc. London for 1843: 154; Fig.: HINDS in SOWERBY; Thes. Conch., 1844, T., pl. 45, fig. 98.

This small species was described from the "Philippines," but it has not been among specimens of the area, seen by the author to date. It has been recorded in New Guinea (HINDS, Voy. Sulphur), Mauritius (VIADER, Maur. Inst. Bull. 1 (2)) and the Fijis (CATE & BURCH, The Veliger 6 (3)).

Several of the above unverified species were described from the "Philippines" or have been reported as collected in that area. When possible, I have attempted to provide a general locality for those listed species which have not been among specimens seen during this study.

Generic and sub-generic names, with authors and type species, are as follows:

*Abretiella* BARTSCH, 1923: *T. ccrithina* LAMARCK, 1822.  
*Cingulotrebra* OYAMA, 1961: *T. hedleyana* PILSBRY, 1905  
*Clathrotrebra* OYAMA, 1961: *T. fortunei* DESHAYES, 1857.

*Decorihastula* OYAMA, 1961: *T. affinis* GRAY, 1834.

*Dimidacus* IREDALE, 1929: *T. melamans* (IREDALE, 1929).

*Terebrina* BARTSCH, 1923: *T. cingulifera* LAMARCK, 1822.

*Duplicaria* DALL, 1908: *T. duplicata* (LINNAEUS, 1758).

*Diplomeriza* DALL, 1919: *T. duplicata* (LINNAEUS, 1758).

*Hastula* H. & A. ADAMS, 1853: *H. concinna* (DILLWYN, 1817); Syn.: *T. strigilata* (LINNAEUS, 1758) in part.

*Acuminia* DALL, 1908: *T. lanceata* (LINNAEUS, 1767).

*Hastulina* OYAMA, 1961: *H. casta* (HINDS, 1844).

*Impages* E. A. SMITH, 1873: *H. caerulea* (LAMARCK, 1822).

*Myurella* HINDS, 1844: *T. myuros* LAMARCK, 1822.

*Noditrebra* COSSMAN, 1896: *T. geniculata* TATE, 1886.

*Oxymeris* DALL, 1908: *T. maculata* (LINNAEUS, 1758).

*Acus* HUMPHREY, 1840; non MÜLLER, 1767.

*Perirhoe* DALL, 1908: *T. circumcincta* DESHAYES, 1857.

*Pristitrebra* TAKI & OYAMA, 1954: *T. tsuboiana* YOKOYAMA, 1922; = *T. bifrons* HINDS, 1844.

*Punctotrebra* BARTSCH, 1923: *T. nitida* HINDS, 1844.

*Strioterebrum* SACCO, 1891: *T. basteroti* NYST, 1843.

*Subula* SCHUMACHER, 1817: *T. dimidiata* (LINNAEUS, 1758).

*Terebra* BRUGUIÈRE, 1789: *T. subulata* (LINNAEUS, 1767)

*Triplostephanus* DALL, 1908: *T. triseriata* GRAY, 1834.

#### ACKNOWLEDGMENTS

Perhaps the most difficult part in a project such as this is to get access to the necessary original reference material, and I am particularly grateful to Dr. R. W.

Barker of Bellaire, Texas, for the unreserved use of his personal library; also to Mr. and Mrs. C. N. Cate of Los Angeles, California, and Dr. W. J. Clench and the Museum of Comparative Zoology at Harvard University for photostats and loans of original references used in this study. Dr. Louis M. Brand of Houston, Texas, has generously made available specimens originally from the Cuming Collection.

The kindness of those who have made their collections available is acknowledged with gratitude. In addition to the large collections cited here, many friends have contributed specimens and information without which this project could not have been completed. Since comparison specimens from other than Philippine areas were necessary in order to establish satisfactory identification of some species, the assistance of students and collectors in other areas has been invaluable. In addition to the species cited from the collection of Mr. Baldomero M. Olivera, large quantities of specimens with excellent locality data have been provided by Mrs. Nieves Dayrit, Mr. Pedro de Mesa and Mr. Donald Dan of the Philippines. Among the larger of the world-wide collections of Terebridae loaned for study were those of Mr. Walter Eyerdam of Seattle, Washington, and Mr. Harold P. Post of Lantana, Florida. Specimens and collections from more restricted localities which have been important in establishing identifications were generously loaned or donated by Dr. Tokyo Shikama and Mr. Akibumi Teramachi of Japan; Mr. and Mrs. C. H. Ames, currently of San Diego, California, generously loaned their large collection made in Japan and at Guam. Also from Guam were many specimens collected by Mr. Herbert T. Ward. Other specimens used in making identifications were sent in quantity with excellent data by Mrs. Mary Elborne of Queensland and Mr. Ted Crake of Western Australia, by Mrs. Isobel Pert of New Guinea, and by Mrs. Mary Saul of Sabah (formerly North Borneo). To all of these and the many others who generously gave of their time, assistance and advice, I wish to express my gratitude.

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